

What is claimed is:

1. A washing machine comprising:

a tub holding laundry, water, and detergent;

a detergent storing assembly storing the detergent and providing the detergent to the tub on washing;

a cabinet having the tub installed inside wherein the detergent storing assembly is loaded on a loading hole formed at one side of the cabinet; and

a packing means sealing a gap between the detergent storing assembly and the cabinet to prevent external water from flowing in the cabinet.

2. The washing machine as claimed in claim 1, wherein the detergent storing assembly comprises;

a detergent box provided to the loading hole to store the detergent, and

a lid part fixed to a topside of the detergent box to open/close.

3. The washing machine as claimed in claim 2, the lid part comprising:

a lid frame fixed to the detergent box and having an opening at a center to put the detergent in the detergent box; and

a revolvable lid installed at one side of the lid frame to open/close the topside of the detergent box.

4. The washing machine as claimed in claim 3, wherein a bottom of the lid frame is mounted on a periphery of the loading hole.

25

26 5. The washing machine as claimed in claim 4, wherein the packing means is
27 provided between the bottom of the lead frame and the rim of the loading hole.

28

29 6. The washing machine as claimed in claim 5, wherein the lid frame comprises
30 an insertion groove to which the packing means is fitted.

31

32 7. The washing machine as claimed in claim 6, wherein the insertion groove is
33 formed at the bottom of the lead frame except a portion to which the lid is connected.

34

35 8. The washing machine as claimed in claim 7, wherein the packing means
36 comprises a gasket fitted to the insertion groove, a gasket partially protruding therefrom.

37

38 9. The washing machine as claimed in claim 8, wherein the gasket comprises;
39 a first gasket inserted in a front portion of the insertion groove of the lid frame, and
40 a second gasket inserted in a rear portion of the insertion groove of the lid frame.

41

42 10. The washing machine as claimed in claim 6, wherein a plurality of inclined
43 protrusions are formed on an inside of the insertion groove to have the packing means slide to
44 be inserted thereon.

45

46 11. The washing machine as claimed in claim 1, wherein the loading hole is
47 formed at a topside of the cabinet.